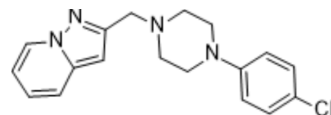


FAUC 213

Cat. No.:	HY-14327		
CAS No.:	337972-47-1		
Molecular Formula:	C ₁₈ H ₁₉ ClN ₄		
Molecular Weight:	326.82		
Target:	Dopamine Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (305.98 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	3.0598 mL	15.2989 mL	30.5979 mL
	5 mM	0.6120 mL	3.0598 mL	6.1196 mL
	10 mM	0.3060 mL	1.5299 mL	3.0598 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 1.25 mg/mL (3.82 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (3.82 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (3.82 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	FAUC 213 is an orally active and highly selective dopamine D ₄ receptor complete antagonist with a K _i of 2.2 nM for hD _{4.4} . FAUC 213 has less activity on D ₂ and D ₃ receptors (K _i s of 3.4 μM, 5.3 μM for hD ₂ , hD ₃ , respectively). FAUC 213 can cross the blood-brain barrier (BBB). FAUC 213 exhibits atypical antipsychotic characteristic ^[1] .		
IC₅₀ & Target	hD _{4.4} Receptor 2.2 nM (K _i)	hD ₂ Receptor 3.4 μM (K _i)	hD ₃ Receptor 5.3 μM (K _i)

In Vitro	<p>FAUC 213 inhibits p5-HT₁ (K_i=1.2 μM) p5-HT₂ (K_i=0.52 μM) α₁ (K_i=0.27 μM)^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								
In Vivo	<p>FAUC 213 (7.5-30 mg/kg; orally; single dose) significantly reduces this elevation in AMPH-induced locomotor hyper-activity only pre-treatment with 30 mg/kg. FAUC 213 significantly restores the prepulse inhibition (PPI) reduction caused by the apomorphine (APO) treatment with 30 mg/kg^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" data-bbox="345 380 1515 653"> <tr> <td data-bbox="345 380 618 447">Animal Model:</td> <td data-bbox="618 380 1515 447">Male adult Wistar rats weighing 300-350 g^[1]</td> </tr> <tr> <td data-bbox="345 447 618 506">Dosage:</td> <td data-bbox="618 447 1515 506">7.5, 15, 30 mg/kg</td> </tr> <tr> <td data-bbox="345 506 618 564">Administration:</td> <td data-bbox="618 506 1515 564">Orally; single dose</td> </tr> <tr> <td data-bbox="345 564 618 653">Result:</td> <td data-bbox="618 564 1515 653">Significantly reduced this elevation in amphetamin (AMPH)-induced locomotor hyper-activity only pre-treatment with 30 mg/kg.</td> </tr> </table>	Animal Model:	Male adult Wistar rats weighing 300-350 g ^[1]	Dosage:	7.5, 15, 30 mg/kg	Administration:	Orally; single dose	Result:	Significantly reduced this elevation in amphetamin (AMPH)-induced locomotor hyper-activity only pre-treatment with 30 mg/kg.
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REFERENCES

[1]. Frank Boeckler, et al. FAUC 213, a highly selective dopamine D4 receptor full antagonist, exhibits atypical antipsychotic properties in behavioural and neurochemical models of schizophrenia. *Psychopharmacology (Berl)*. 2004 Aug;175(1):7-17.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA